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U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Attorney	HESI.112275	Serial	10/806,980
Docket No.:		Number:	

Applicant: Yin L. Cheung, Michael J. Zeitlin and Mark Acosta

Filing Date: March 23, 2004 Group: 2671

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUBCLASS	FILING DATE
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSL YES	ATION_NO

EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
2		Landmark Graphics' Operational Manual on "SeisCube," October 1996, pp. 1-272.
2		Landmark Graphics' Operational Manual on "OpenVision," July 1997, pp. 1-169.

EXAMINER	park	DATE CONSIDERED	9/30/04	
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EXAMINER: Initial citation if reference was considered. Draw line through citation if not in conformance to MPEP 609 and not considered. Include copy of this form with next communication to applicant.

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	REF. NO.	PATENT NUMBER	ISSUE DATE	INVENTOR	CLASS	SUBCLASS	FILING DATE
3	1.	4,467,461	08/21/84	Rice, et al.	367	70	01/05/81
	2.	4,751,643	06/14/88	Lorensen, et al.	364	414	8/4/86
	3.	4,984,157	01/08/91	Cline, et al.	367	413	09/21/88
	4.	5,410,250	04/25/95	Brown, Hugh K.	324	309	09/28/93
	5.	5,455,896	10/03/95	Takamura, Teiji	395	119	11/29/94
	6.	5,563,949	10/08/96	Bahorich, et al.	364	421	12/12/94
	7.	5,574,836	11/12/96	Broemmelsiek, Raymond M.	395	127	1/22/96
	8.	5,586,082	12/17/96	Anderson, et al.	367	73	03/02/95
	9.	5,659,691	08/19/97	Durward, et al.	395	329	9/23/93
	10.	5,734,384	03/31/98	Yanof, et al.	345	424	10/15/96
	11.	5,759,044	06/02/98	Redmond, Scott	434	301	7/6/95
	12.	5,798,982	08/25/98	He, et al.	367	73	03/02/95
	13.	5,852,447	12/22/98	Hosoya, <i>et al.</i>	345	468	05/17/96
	14.	5,930,730	07/29/99	Marfurt, et al.	702	16	9/13/96
	15.	5,966,672	10/12/99	Knupp, Daniel F.	702	16	07/28/97
	16.	6,083,162	07/04/00	Vining, David J.	600	407	9/27/95
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EXAMINER INITIAL	REF. NO.	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSL YES	ATION NO
3	18.	WO 96/18915	06/20/96	. PCT	G01V	28		

EXAMINER Almaran DATE CONSIDERED 9/30/09

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EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
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2	20.	"CogniSeis Turns Up the Volume with the Latest Release of VoxelGeo," Press Release, April 30, 1997 (printed 3/27/98), 2 pages
3	21.	Compton, Mark, "A Dream Comes True," June 1997, 3 pages, IRIS Universe #26
3	22.	Gatti, C., D. Marini, P. Minardi, "An Interactive System for Volume Analysis," published 1993, Scientific Visualization Advanced Software Techniques, Section 3.2.
3	23.	GeoQuest, IESX "Integrated Multisurvey Interpretation," May 3, 1998, 17 pages, printed from Schlumberger website www.slb.com/oilf/geoquest/iesx/iesx.html.
3	24.	"GeoQuest at a glance," printed May 3, 1998, 3 pages, printed from Schlumberger website www.slb.com/ar94/html/geoquest.html.
3	25.	"GeoQuest Enhances GeoViz and Voxels for OCTANE," 1997 (printed 5/3/98), 3 pages, printed from GeoQuest/Schlumberger website www/sgi.com/Products/hardware/desktop/partners/octane/geoquest.
3	26.	Goldman, Jon and Roy, Trina M., "The Cosmic Worm," July 1994, pp. 12-14, IEEE Computer Graphics and Applications, Vol. 14, No. 4.
3	27.	Gras, Rutger, "Automated 3-D Software Interprets Fault Systems," May 1998, pp. 81-83, World Oil.
3	28.	Hutchinson, Suzi, "FZAP! 1.0 Offers Automated Fault Picking," printed March 27, 1998, 5 pages, UserNet – May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97*4.html.

EXAMINER What for h	DATE CONSIDERED 9/39/04
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EXAMINER INITIAL	REF. NO.	OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, RELEVANT PAGES, PLACE OF PUBLICATION)
1	29.	Koen, A. D. "Tough Economics Remold Production R & D Campaign," July 5, 1993, pp. 14-18, Oil & Gas Journal.
2	30.	Peloso, Andy, "Open Vision 4.0," printed March 27, 1998, 8 pages, UserNet – May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97-3.html.
2	31.	Pepke, Eric "Animation and the Examination of Behavior Over Time," 1995, pp. 203-238, Computer Visualization Graphics Techniques for Scientific and Engineering Analysis, Chapter 7.
3	32.	Petzet, G. Alan, "Interactive 3D Visualization Speeds Well, Reservoir Planning," November 24, 1997, pp. 82-83 (copied on 1 page), Oil & Gas Journal.
3	33.	Scheier, Robert L., "Creating a Cash Gusher," April 21, 1997, pp. 76-78, <i>Computerworld</i> (www.computerworld.com).
. 3	34.	Shamban, Adam, Jones, Gary and Wright, Carole, "EarthCube 1.2: New Functionality and Work Flows," printed March 27, 1998, 8 pages, UserNet – May/June 1997, printed from Landmark Graphics website www.lgc.com/UserNet/mj97/mj97-5.html.
3	35.	"Texaco Announces the Opening of New 3-D Visualization Center in Houston," November 11, 1997, p. 11111454, <i>Business Wire.</i>
3	36.	"Texaco E&P Center Allows Visual Probe Of 3D Data Volumes," June 1, 1998, pp. 46-47 (copied on one page), Oil & Gas Journal.
3	37.	Thomas, Kate, "Oil Biz Gushes Patents," February 16, 1998, pp. 1, 26, The National Law Journal.
3	38.	"VoxelGeo," printed March 27, 1998, 5 pages, Paradigm Geophysical Broadband Solutions in Depth, printed from CogniSeis website www.cogniseis.com/voxelgeo.html.
3	39.	Zeitlin, Michael, "3-D Seismic Visualization," March 12, 1998, 1 page, presentation given at the Emerging Technologies Group Dinner Meeting, printed from www.hougeo.org/meet0398.htm.

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2	40.	Zeitlin, Michael, "Integration Strategy Takes Full Advantage of 3-D Seismic Capability," May 1995, pp. 59-60, <i>World Oil.</i>
2	41.	Zeitlin, Michael, "Visualization Brings a New Dimension to Oil Exploration and Production," June 1992, pp. 36-39, GEOBYTE.

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